

Assignment 2-5 Coprime Integers

Two different positive integers a and b are coprime if the only positive integer that is a factor of both of them is 1. The numbers 8 and 9 are coprime, since 1 is their only common factor. On the other hand, 6 and 9 are not coprime, because they are both divisible by 3.

Input

The input consists of t ($30 \leq t \leq 40$) test cases. The first line of the input contains only positive integer t . Then t test cases follow. Each test case consists of exactly one line with two different integers a and b ($2 \leq a, b \leq 2^{31}$).

Output

For each line of input, there will be one line of output. If a and b are coprime print 'Coprime', otherwise print 'Not Coprime' (without the quotes).

Sample Input

```
2
4 9
6 10
```

Sample Output

```
coprime
not coprime
```